Original/Duplicate/Triplicate
CONTRACT CERTIFICATE

No. ***Second & Final Bill*** (For Other Works) Date.....2023

Division: **BBMP, Project, Yelahank, Zone** Sub-Division: **BBMP, Project , Yelahanka Zone**

Bill Received No. Dated Divisional / Sub Divisional Cash Book Voucher No..... Dated.....

Schedule Docket No. Head of Account: **P-3242** **Work Code: 007-18-000126** **Est.Cost: 200.00 Lakhs** D.R.No. :

Name of Work (as per sanctioned estimate: **Construction of Marriage Community Hall in Jakkur in Ward No. 07, Byatarayanapura Kodigehalli Sub Division.**

Name of Contractor and Full Address: ***Sri. K. Shankar Reddy, Contractor, # 48/2, Kaverinagar, Kaval Byrasandra, Bangalore - 32.***

Reference to Agreement No. **EE(Projects)/Ynk Zone/WO/49/2019-20** **Dated: 25.07.2019**

Certified that the measurements were taken by me on 28/2/23 and recorded of **Pages** 220434 to 220457 of measurement Book No. 06/2018-19 and that the work is satisfactorily executed.

K. Sankar Reddy
Contractor

Officer in-charge of work

Certified that the measurement were taken by me on 28/2/23 ..... and found correct. The work is satisfactorily executed.

Certified that the quantities of materials shown in column 3 of Account have been actually brought to site of the work and the contractor has not previously received any advance on this security. These materials are of and imperishable nature and are all required for immediate use on the work in connection with items for finished work have been agreed upon. A normal agreement signed and executed by the contractor is recorded in the office.

Asst. Executive Engineer
Sub-Division Officer

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

II Memorandum of Payment

		Amount
1)	Total value of work done or supplies made as per account within	
2)	Deduct amount to be held in reserve being .....percent Rs.....	
3)	" Balance	
4)	Deduct Payment:	
	a. Amount of previous payment as in the Office Cash Book Voucher No.....Dated.....S.D. No..... adjusted towards cash advance recovery of	
	b. Payments Now made } cost store or other material supplied. recovery of amount creditable to this/other work Amount paid on this bill Cheque / Cash.	
5)	Balance being unpaid value of work done held in reserve.	
6)	Deduct cash advance made on the Office cash Book Voucher No..... dated.....less adjustments.	
7)	Net amount due to or from Contractor unadjustments items.	
8)	Advance to Contractor for materials brought to site (as detailed) within.	
9)	Value of Government materials supplied.	
	Total amount adjusted -	

K. Sankar Reddy
Contractor's Signature

Received Rs..... (in words).....
.....
by cash and by adjustment of Payment as per memorandum
(in final settlement of all demands)

Head of Account P-3242
Audited & admitted for Rs. 7183000-00
(For use in the Office)

Witness
1.
2.
Dated Signature of Contractor

Stamp

Paid by me by Cheque No.....Dated.....
Cash Rs.....
Dated.....

Initials of Officer making payment

Executive Engineer

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Sl. No.		Unit	Previous Measurement		Present Measurement			Total Upto Date		Remark
			Qty.	Cost	Qty.	Rate Rs. P.	Amount	Qty	Cost	
1	Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts and lead of 1000 metres complete as per specifications. i) Lime / Cement Concrete. I. By Manual Means :C. Prestressed / Reinforced cement concrete grade M20 & above.	Cum	13.32	16393.00	0.00	1230.69	0.00	13.32	16393.00	
2	Dismantling burnt brick masonry in clay mortar/lime mortar/cement mortar and stacking the bricks within a radius of 50m and removing the debris to a distance upto 200m.	Cum	23.74	4460.00	0.00	187.86	0.00	23.74	4460.00	
3	Dismantling cement concrete flooring or plain cement concrete work including removing and conveying the debris to distance upto 200m (within average thickness of 15 cms).	Sqm	63.00	4172.00	0.00	66.23	0.00	63.00	4172.00	
4	Dismantling size stone masonry in clay mortar and stacking the size stone within a radius of 50m and removing the debris to a distance upto 200m.	Cum	17.68	3662.00	0.00	207.12	0.00	17.68	3662.00	
5	Earthwork in surface excavation in ordinary soil for levelling and lowering the ground manually (other than foundation of buildings, culverts, road drains and trenches of pipe lines and cables) and removing the excavated stuff to a distance not exceeding 50m and lift upto 1.5m, excavated surface leveled and neatly dressed, disposed earth to be leveled after breaking of clods and neatly dressed as per specifications.	Cum	372.60	70444.00	0.00	189.06	0.00	372.60	70444.00	
6	Disposal of debries to the final place of disposal with all lead and lift and as direction by the engineer in charge of the work, lead 15 Km a) Basic rate for haulage of materials as per item No. 17.4/KSRRB : M100-4.1 ..... Rs. 2.00 Tonne/Km b) Average earth of work 1.28 Tonne/Km for Rs. 2.00/Km c) Add loading and unloading Item No. 17.1 KSRRB M 100-1 Rs. 68.00	Cum	436.79	56494.00	0.00	129.34	0.00	436.79	56494.00	
7	Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications.	Cum	610.74	208134.00	0.00	340.79	0.00	610.74	208134.00	
	Qty Above 125%		560.75	303192.00	0.00	540.69	0.00	560.75	303192.00	
8	Providing and Filling in foundation with granite/trap broken metal 100mm. and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift, complete as per specifications.	Cum	48.63	123796.00	0.00	2545.68	0.00	48.63	123796.00	
	Qty Above 125%		62.32	182286.00	0.00	2925.00	0.00	62.32	182286.00	

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No.		Unit	Measurement Qty.	Cost	Qty.	Rate Rs. P.	Amount	Qty	Cost	Rema
9	Providing sand cement bed with 5% cement with all leads for all materials and lift of 1.5 m. machine mixed, laid in layers of 15cms. thick and well compacted for foundation, including curing cost of materials labour and HOM complete as per specifications.	Cum	48.63	181595.00	0.00	3734.22	0.00	48.63	181595.00	
	Qty Above 125%		62.32	224987.00	0.00	3610.19	0.00	62.32	224987.00	
10	Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregates @ 0.57cum machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications.	Cum	161.38	945822.00	0.00	5860.84	0.00	161.38	945822.00	
	Qty Above 125%		10.69	65678.00	0.00	6143.83	0.00	10.69	65678.00	
11	Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6, stone hammered dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.	Cum	199.69	1006835.00	0.00	5041.99	0.00	199.69	1006835.00	
	Qty Above 125%		19.56	108255.00	0.00	5534.50	0.00	19.56	108255.00	
12	Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.	Cum	78.39	472458.00	0.00	6027.02	0.00	78.39	472458.00	
13	Providing ruled pointing to coursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications.	Sqm	166.71	19673.00	0.00	118.01	0.00	166.71	19673.00	
14	Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with lead upto 50 m. and lift upto 1.5 m. including cost of all labour complete as per specifications.	Cum	610.74	93400.00	0.00	152.93	0.00	610.74	93400.00	
	Qty Above 125%		560.75	135724.00	0.00	242.04	0.00	560.75	135724.00	

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Sl. No.		Unit	Measurement Qty.	Cost	Qty.	Rate Rs. P.	Amount	Qty	Cost	Rema
15	Providing and laying in position reinforced cement concrete of design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70cum and fine aggregates @0.47cum, with superplastisiser @ 3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation plinth and footing , Pedestal staircase, lintels, retaining walls, return walls, walls (any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, bed blocks, anchor blocks, fillets etc., including cost of all materials, labour, HOM of machinery, curing, complete as per specifications.	Cum	117.44	879782.00	0.00	7491.33	0.00	117.44	879782.00	
	Qty Above 125%		65.12	455763.00	0.00	6998.81	0.00	65.12	455763.00	
16	Providing and laying in position reinforced cement concrete of design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70cum and fine aggregates @0.47cum, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in GF level for roof slabs, staircase, lintels, retaining walls, return walls, walls (any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM of machinery, curing, complete as per specifications. Ground Floor	Cum	125.20	959926.00	0.00	7667.14	0.00	125.20	959926.00	
17	First Floor	Cum	106.26	820634.00	0.00	7722.89	0.00	106.26	820634.00	
18	Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 24kgs, with 12mm and down size graded granite metal coarse aggregates @ 5175cum and fine aggregates @ 0.345cum, with superplastisiser @ 0.225lts, machine mixed, well compacted for plain chajja of 7.5 cms. average thickness, upto GF level, including cost of all materials, labour, HOM of machinery, finishing, curing, complete as per specifications. Ground Floor Chijja	Sqm	0.00	0.00	0.00	549.12	0.00	0.00	0.00	
19	First Floor Chijja	Sqm	0.00	0.00	0.00	554.69	0.00	0.00	0.00	
20	Providing T.M.T bars Fe 500 steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.	T	62.00	4524943.00	0.00	72982.95	0.00	62.00	4524943.00	

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Cl. No.		Unit	Measurement Qty.	Cost	Qty.	Rate Rs. P.	Amount	Qty	Cost	Rema
21	Lift charges for steel of all diameters for additional floors over GF per floor height of 3.5 m. or part thereof cost of labour, complete as per specifications. Specification No.	T			0.00	568.38	0.00	0.00	0.00	
22	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specifications.	Sqm	253.60	70544.00	0.00	278.17	0.00	253.60	70544.00	
	Qty Above 125%		91.84	28533.00	0.00	310.68	0.00	91.84	28533.00	
23	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications.	Sqm	259.76	91651.00	0.00	352.83	0.00	259.76	91651.00	
	Qty Above 125%		77.63	33466.00	0.00	431.10	0.00	77.63	33466.00	
24	Providing and removing centering, shuttering, strutting, propping etc., for columns, pillars, piers, abutments, post and struts, square / rectangular / polygon in plan including cost of all materials, labour complete as per specification. Ground Floor Columns	Sqm	281.04	123866.00 23852	0.00	440.74	0.00	281.04	123866.00 12385 2	
25	First Floor Columns	Sqm			0.00	446.31	0.00	0.00	0.00	
26	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressumers and lintels not exceeding 1 m in depth including cost of all materials, labour complete as per specifications. Ground Floor	Sqm			0.00	308.28	0.00	0.00	0.00	
27	First Floor	Sqm			0.00	313.85	0.00	0.00	0.00	
28	Providing and removing centering height more than 3.5 mtrs, shuttering, strutting, propping etc., and removal of form work for flat surface such as suspended floors, roofs, landings, balconies and likes, thickness upto 200 mm including cost of all materials, labour complete as per specifications. Ground Floor	Sqm			0.00	376.91	0.00	0.00	0.00	
29	First Floor	Sqm			0.00	382.49	0.00	0.00	0.00	
30	Providing and removing centering, shuttering, strutting, propping etc., for edges of slabs and breaks in floor, cills, plinth including cost of all materials, labour complete as per specification. Ground Floor	Sqm			0.00	816.45	0.00	0.00	0.00	
31	First Floor	Sqm			0.00	822.02	0.00	0.00	0.00	
32	Providing and removing centering, shuttering, strutting, propping etc., for chajjas, corbels etc., including edges including cost of all materials, labour complete as per specification. Ground Floor	Sqm			0.00	325.13	0.00	0.00	0.00	
33	First Floor	Sqm			0.00	330.71	0.00	0.00	0.00	

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Sl. No.		Unit	Measurement			Rate Rs. P.	Amount	Qty	Cost	Rema
			Qty.	Cost	Qty.					
34	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for Stairs (excluding landing) except spiral staircase including cost of all materials, labour complete as per specification. Ground Floor	Sqm			0.00	572.00	0.00	0.00	0.00	
35	First Floor	Sqm			0.00	577.57	0.00	0.00	0.00	
	Qty Above 125%				0.00	631.76	0.00	0.00	0.00	
36	Providing and constructing load bearing with solid concrete blocks having block density not less than 1800 kg/cum having a minimum avarage compressive strength of 4.00 Newton /sqmm conforming to I.S: 2185 (part-1): 2005 and constructed with CM 1:4 as per 2572:2005 including cost of materials, labour charges, scaffolding, curing hire charges of machinery etc., complete as per specifications KBS NO.5.4 - do - with solid concrete blocks of size 400 x 150 x 200 mm Ground Floor	Sqm	190.99	215502.00	0.00	1128.34	0.00	190.99	215502.00	
37	First Floor	Sqm			0.00	1161.79	0.00	0.00	0.00	
38	Providing and constructing load bearing with solid concrete blocks with solid concrete blocks of size 400 x 100 x 200 mmhaving block density not less than 1800 kg/cum having a minimum avarage compressive strength of 4.00 Newton /sqmm conforming to I.S: 2185 (part-1): 2005 and constructed with CM 1:4 as per 2572:2005 including cost of materials, labour charges, scaffolding, curing hire charges of machinery etc., complete as per specifications Ground Floor	Sqm			0.00	862.21	0.00	0.00	0.00	
39	First Floor	Sqm			0.00	895.66	0.00	0.00	0.00	
40	Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240 kgs, with 20mm and down size graded granite metalcoarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum, machine mexed, concrete laid I layers not exceeding 15 cms, thick, well compacted, in foundation, plinth and cills, including cost of all machinery, curing complete as per specifications. Ground Floor	Cum			0.00	6552.05	0.00	0.00	0.00	
41	First Floor	Cum			0.00	6607.80	0.00	0.00	0.00	
42	Providing Honne wood frames of doors, windows, clerestory windows, ventilators and other frames, wrought, framed or assembled including making plaster groves (excluding cost of cement concrete and side clamps), but including cost of materials, labour, HOM of machineries complete as per specifications.	Cum			0.00	123857.99	0.00	0.00	0.00	

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Sl. No.		Unit	Measurement Qty.	Cost	Qty.	Rate Rs. P.	Amount	Qty	Cost	Rema
43	Providing and fixing in position fully paneled Honne wood shutters for doors, styles and rails of 40mm. thick with bottom and lock rails 180mm wide top rail and styles 100mm wide as per drawing and panels of 25mm thick including cost of materials, labour, HOM of machineries complete as per specifications. (excluding cost of fixtures) Ground Floor	Sqm			0.00	5591.10	0.00	0.00	0.00	
44	First Floor	Sqm			0.00	5594.45	0.00	0.00	0.00	
45	Providing and fixing in position anodized aluminium windows and ventilators as per approved drawings with sliding shutters using double track window frame section of size 61.85x31.75mm. with 1.2mm thick, bottom section weight 0.695 kg/rn, sides and top sections 1.3 mm. thick weight 0.659 kg/rn; and shutter comprising top and bottom section of size 40mmx18mm, 1.25mm thick 0.417 kg./m; shutter outer side 40mmx18mm, 1.25mm.thick weight 0.417 kg/rn, shutter interlock section 40rnmx26.7mm, 1.1mm thick, weight 0.469 kg/rn. the shutters mounted on nylon rollers with approved quality of fixtures such as aluminium handles tower bolts etc.; glass for shutters fitted with rubber beading alums mitred subdividing the frame tenonned and rivetted in the assembled frame stiffened with end clips at corners angles etc., and t per speciations. Ground Floor	Sqm			8.98	4597.64	41287.00	8.98	41287.00	
	Qty Above 125%				17.16	4269.45	73264.00	17.16	73264.00	
46	First Floor	Sqm			31.89	4600.98	146725.00	31.89	146725.00	
47	Providing and fixing M.S. grill work for windows and ventilators weighing 21 kg/sqm using M.S. flats, or M.S. square rods, or combination of M.S. flats and square rods as per approved design, drawing including cutting steel sections and welding the same to required pattern with a coat of red lead primer, cost of materials, fixtures, labour and HOM of machinery complete as per specifications.	Kgs	765.00	71856.00	191.00	93.93	17941.00	956.00	89797.00	
	Qty Above 125%				742.00	175.39	130139.00	742.00	130139.00	
48	Providing and fixing 12.5mm to 25 mm expanded metal work of 14 gauge with Mathi or Nandi wood patties of 50 mm x 12 mm size, including two coats approved paint etc., complete. (Including cost of screws).	Sqm	7.18	9952.00	0.00	1386.03	0.00	7.18	9952.00	
49	Providing and fixing in position collapsible steel shutters with single or double leaf with vertical channel 20mm10mm2mm braced with flat iron diagonals 20mm5mm size, with top and bottom rails of T iron sections of 40406mm with 38mm steel pulleys complete with bolt and nuts, locking arrangements, stoppers, handles on both sides with 7.5cms openings at 10cms. c to c applying a priming coat of red lead paint, cost of materials, labour, HOM of machinery complete as per specifications. size of gate 2.4m1.4m	Sqm			0.00	4856.54	0.00	0.00	0.00	

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Sl. No.		Unit	Measurement Qty.	Cost	Qty.	Rate Rs. P.	Amount	Qty	Cost	Rema
50	Providing and fixing pull and push type rolling shutters of approved make out of 18 guage, 75mm wide cold rolled steel laths of convex corrugation, with side guides and bottom rail, with interlocking arrangements for steel laths by means of alternate clips, suspension shaft with High tension coil type springs two numbers, mounted on specially designed pipe shaft, with bracket plates, guide channels, ball bearing arrangements, for inside & outside locking with push & pull operations complete including pulling hooks, 4Nos. handles with all fittings and accessories, painted with a coat of red lead paint (without top cover) cost of materials, labour, HOM of machinery complete as per specifications. Shutter size 3mx2.8 m.	Sqm			0.00	3446.42	0.00	0.00	0.00	
51	Providing and fixing top covers made out of 20 guage M.S. sheet over pull and push rolling shutters bent to shape including cost of red lead primer coat of painting, materials, labour, HOM of machinery complete as per specifications.	Mtr			0.00	569.59	0.00	0.00	0.00	
52	Providing 15mm thick cement plaster in single coat with cement mortar 1:4, to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. Ground Floor	Sqm			564.01	223.98	126327.00	564.01	126327.00	
53	First Floor	Sqm			685.95	229.56	157467.00	685.95	157467.00	
54	Providing 12mm thick cement plaster in single coat with cement mortar 1:3, to ceiling including rounding off corners wherever required smooth rendering,: Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications Ground Floor	Sqm			578.98	232.41	134561.00	578.98	134561.00	
	Qty Above 125%				28.54	261.24	7456.00	28.54	7456.00	
55	First Floor	Sqm			606.25	237.99	144281.00	606.25	144281.00	
	Qty Above 125%				32.53	263.86	8583.00 8580	32.53	8583.00 8580	
56	Providing lime rendering for plastering to wall and ceiling, including cost of materials, labour, curing complete as per specifications Ground Floor	Sqm			1171.52	30.11	35274.00	1171.52	35274.00	
57	First Floor	Sqm			1047.10	35.68	37361.00	1047.10	37361.00	
	Qty Above 125%				277.63	38.92	10805.00	277.63	10805.00	
58	Providing 15mm thick cement plaster in single coat with cement mortar 1:6, to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. Ground Floor	Sqm			225.73	201.10	45394.00	225.73	45394.00	
59	First Floor	Sqm			358.72	206.68	74140.00	358.72	74140.00	

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Sl. No.		Unit	Measurement Qty.	Measurement Cost	Qty.	Rate Rs. P.	Amount	Qty	Cost	Remarks
60	*Providing and laying flooring using prepolished, water cut/gang saw 19mm thick granite laid over bed of 20mm thick 1:4 cm and jointed with neat cement slurry mixed with pigment to mach shade of granite slabs including laying POP on finished surface and clearning the surface, including the cost of all materials and labours etc., complete as per specification -do- using silver grey granite/Multy Red/Ruby Red/Black/Hassan Green Granite of width not less than 1200mm. Ground Floor*	Sqm			467.96	3153.80	1475852.00	467.96	1475852.00	
61	First Floor	Sqm			64.38	3155.47	203149.00	64.38	203149.00	
	Qty Above 125%				422.00	3568.88	1506067.00	422.00	1506067.00	
62	Providing Ceramic tiles of size 30x30 cms of approved make, shade and size for flooring, treads of steps and landings laid on a bed of 12mm thick, cement mortar 1:3 mix, flush pointing with white cement using colour pigment, including cost of materials, labour, curing, complete as per specifications. Ground Floor	Sqm			7.15	1416.14	10125.00 10118.00	7.15	10125.00	
63	First Floor	Sqm			8.74	1417.81	12392.00	8.74	12392.00	
64	Providing skirting, dado, rises of steps with colour glazed tiles on 10mm thick cement plaster 1:3 and jointed with white cement slurry over rough plaster surface (excluding cost of rough plastered surface which should be measured and paid separately) using glazed tiles of approved make and size including cost of materials, labour, complete as per specifications.. Specification No. KBS 14.16, 14.17 Colour glazed tiles 30×60cms 6mm thick with border of size 30×10cms. Ground Floor	Sqm			50.41	1787.03	90084.00 61866.00	50.41	90084.00	
65	First Floor	Sqm			34.59	1788.71	61871.00	34.59	61871.00	
66	Providing and fixing white vitreous china clay, water closet European type (Pedestal type, P-trap) with black solid plastic seat and lid, C.P brass hinges, rubber buffers. 10 litre low level, P.V.C flushing cistern (all are approved make) with fittings, C.I/M.S brackets, 40mm diameter flush bend with fittings and clamps, overflow arrangements with special and 25mm mosquito proof coupling of approved design, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications.	Pan			2.00	6177.55	12355.00	2.00	12355.00	
67	Providing and fixing white vitreous china clay, water closet Indian type (Squatting pan) of size 580mm with footrests, 100mm S or P trap, (approved make) cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications.	Pan			2.00	1540.17	3080.00	2.00	3080.00	

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Sl. No.		Unit	Measurement							Remarks
			Qty.	Cost	Qty.	Rate Rs. P.	Amount	Qty	Cost	
68	Providing and fixing white vitreous china clay, flat back wash basin size 450 x 300mm with a single 15mm C.P brass pillar tap with0.1 / M.S brackets, 32mm C.P. brass waste of standard pattern, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications.	Unit			2.00	3165.84	6332.00	2.00	6332.00	
69	Providing and fixing C.P. brass towel rail 600mm length, 20mm dia with C.P brackets, fixed to wooden cleats with C.P. brass screws including cost of materials, labour complete as per specifications	Unit			6.00	854.98	5130.00	6.00	5130.00	
70	Providing and fixing 450mm dia circular shape mirror with plastic moulded frame of approved make and shade with 6mm thick hard board backing including cost of materials, labour complete as per specifications.	Unit			8.00	1042.84	8343.00	8.00	8343.00	
71	Providing 15cms x 10cms stoneware gully trap of approved quality and make fixing in CC 1:2:4 and plastering with CM 1:3 wherever necessary. (Rate includes cost of all materials, fixtures and lead).	Each			0.00	325.13	0.00	0.00	0.00	
72	Providing and fixing 12.5cms x 7.5cms CI Nahani trap of approved make conforming to PSI specifications and construction of Cistern in M-15 as per directions (Rate is inclusive of cost of materials and fixtures and conveyance of materials to work spot).	Each			14.00	343.20	4805.00	14.00	4805.00	
73	Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement & the cost of cutting chases & making good the same including testing of joints complete. (Concealed work including cutting chases and good the walls etc.) - 25mm nominal CD pipes	M			112.50	301.05	33868.00	112.50	33868.00	
	Qty Above 125%				37.50	462.06	17327.00	37.50	17327.00	
74	Providing and fixing in position brass stop cock of approved quality 20mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications.	Each			30.00	192.67	5780.00	30.00	5780.00	
75	Providing and placing on terrace, polyethylene water storage tanks with manhole lid and suitable locking arrangements, making holes of suitable diameter for inlet, outlet and over flow pipes, including cost of all materials, labour, transport charges, HOM of equipments and testing complete as per specifications. (For 1000 litre capacity).	Nos			1.00	10195.96	10196.00	1.00	10196.00	

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Sl. No.		Unit	Measurement		Present Measurements			Previous		Remarks
			Qty.	Cost	Qty.	Rate Rs. P.	Amount	Qty	Cost	
76	Constructing brick masonry inspection chamber 600x600mm and 450mm depth (clear inside dimension) for single pipeline, using table moulded non-modular bricks of class designation 50 in cement mortar 1:5, CI cover withframe (light duty) 600x600mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23kg and weight of frame 15 kg) R.C.C. top slab with cement concrete 1:2:4 mix 20mm and downsize granite metal, foundation concrete 1:5:10 with 40mm and downsize granite metal inside plastering 12mm thick with cement mortar 1:3, finish smooth with a floating coat of cement on walls and bed concrete complete as per standard design including cost of materials, labour charges, curing complete as per specifications.	Nos			4.00	10782.41	43130.00	4.00	43130.00	
77	Providing and fixing to wall, ceiling and floor high density polyethylene pipes 6.00 kgf/sq.cm working pressure 140mm outside diameter with special flange, compression type fittings, wall clips, making good the wall, ceiling and floor, including cost of all materials, labour charges, HOM of equipments and testing complete as per specifications.	M			60.00	863.41	51805.00	60.00	51805.00	
78	Providing and fixing polished granite sink of size 60cms×60cms of 23cm thick, the sink portion shall be 15cm in depth of shapes oval/round/square over brick masonry in cement mortar 1:6 including cost and conveyance of all materials, labour for all items of work, HOM of equipment with all lead and lift, loading and unloading, transportion charges and all other incidential charges etc., complete as per specification and directions of the Engineer-in-charge of the work.	Each			2.00	5833.14	11666.00	2.00	11666.00	
79	Providing and fixing Stainless steel 304 grade for staircase railings, balconies, ramps with hand rail, 50mm dia 16 guage hollow pipe welded to vertical hollow 50mm dia pipe of 16 guage, stainless steel vertical pipe spaced at 1.20m regular intervals, and 5 Nos of 25mm dia. Stainless steel hollow horizontal pipe are welded to vertical 50mm dia hollow pipe. The entire assembly is fixed to staircase concrete by using expansion bolts by drilling concrete etc., complete including cost of materials, labour, HOM of machineries and electrical charges etc., complete as per specification.	Sqm			0.00	7402.22	0.00	0.00	0.00	
80	Providing and fixing 60x60cms M.S. inspection door with necessary M.S. frame made out of M.S. angle 50x50x6mm and M.S. shutters of 31.5mm or B.G.10 thick with hinges on top and locking arrangement, painting etc., complete (for RCC over head tank and G.L.S.R.)	Each			2.00	2148.75	4298.00	2.00	4298.00	

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Sl. No.		Unit	Measurement		Qty.	Rate Rs. P.	Amount	Qty	Cost	Rem
			Qty.	Cost						
81	Providing and applying painting in two coats with plastic emulsion paint with primer of approved brand on wall surface to give an even approved shade after thoroughly brushing the surface, free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications. - with primer Ground Floor	Sqm			1171.52	108.38	126969.00	1171.52	126969.00	
82	First Floor	Sqm			1047.10	111.72	116982.00	1047.10	116982.00	
	Qty Above 125%				277.63	76.80	21322.00	277.63	21322.00	
83	Providing and finishing external walls in two coats with waterproof cement paint with primer of approved brand and shade to give an even shade after throughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications. - with primer Ground Floor	Sqm			225.73	101.15	22833.00	225.73	22833.00	
84	First Floor	Sqm			358.72	104.50	37486.00	358.72	37486.00	
85	Applying red lead ready mix priming coat over new steel or other metal surface including preparing the surface after throughly cleaning oil, grease, dirt and other foreign matter, and scoured with wire brushes, fine steel wool, sand papers including cost of materials, labour, complete as per specifications. Ground Floor	Sqm			0.00	34.92	0.00	0.00	0.00	
86	First Floor	Sqm			0.00	38.27	0.00	0.00	0.00	
87	Providing and applying enamel metal paint two coats (excluding priming coat) over new steel or other metal surface brushing to give an even shade after cleaning oil, grease, dirt and other foreign matter, including cost of materials, labour, complete as per specifications. Ground Floor	Sqm			0.00	98.74	0.00	0.00	0.00	
88	First Floor	Sqm			0.00	102.09	0.00	0.00	0.00	
89	Providing and fixing on wall surface 4.0 kg / sq.cm H.D.P.E. rain down water pipes 90 mm outer dia. approved make and brand with necessary specials like shoes, bends and offsets fixed with iron clamps, wall plugs, screws, including cost of materials, labour, complete as per specifications.	Mtr			90.00	515.40	46386.00	90.00	46386.00	

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Sl. No.		Unit	Measurement		Qty.	Rate Rs. P.	Amount	Qty	Cost	Rem
			Qty.	Cost						
90	Providing and laying integral cement based waterproofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc., consisting of following application. (a) Applying and grouting a slurry coat of neat cement using 2.75 kg/sqm of cement admixed with proprietary water proofing compound conforming to S:2645 over the RCC slab after cleaning the surface before treatment. (b) Laying cement concrete using broken brick bats 25mm to 100mm size with 50°/c of cement mortar 1:5 admixed with proprietary water proofing compound conforming IS:2645 over 20mm thick layer of cement mortar 1:5 admixed with proprietary water proofing compound to required slope and treating similarly the adjoining walls upto 300mm height including rounding off junctions of walls and slabs. (c) After two days of proper curing, applying a second coat of cement lurry admixed with proprietary water proofing compound (d) Finishing the surface with 20mm thick jointless cement mortar of mix 1:4 admixed with proprietary water proofing compound and finally finishing the surface with trowel and neat cement slurry and making of 300x300mm square. (e) The whole terrace so finished shall be flooded with water fora minimum period of two weeks for curing and for final test including cost of	Sqm			0.00	1088.60	0.00	0.00	0.00	
91	Providing and laying/fixing cement base, precast, pre polished cement concrete, designer tiles 25mm thick conforming to IS 1237 heavy duty tiles for flooring, treads of steps and landing, laid on a bed of 12mm thick cement mortar 1:3 mis finished with flush pointing using white cement, including cost of materials, including cutting, griding the edge to half/full round wherever required, labour, curing complete as per specification.	Sqm			0.00	1306.56	0.00	0.00	0.00	
92	Supplying and wiring adopting loop system in existing PVC Conduit/casing capping using copper PVC insulated multi strand 2x1.5 Sq mm copper wire with a 6 Amps flush type SP control switch shall be fixed on the existing plastic sheet gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block complete for each outlet. Short point-up to 3 Mtrs from tapping point to out let via switch.	Point			50.00	194.01	9701.00	50.00	9701.00	
93	Medium point above 3 Mtrs up to 6 Mtrs from tapping point to out let via switch	Point			50.00	273.18	13659.00	50.00	13659.00	
94	Long point above 6 Mtrs up to 10 Mtrs from tapping point to out let via switch	Point			50.00	404.75	20238.00	50.00	20238.00	
95	Supplying and fixing superior quality modular switch mounting polycarbonate plate with necessary supporting back plate with required nos. of machine screws, bolts nuts etc., complete on the existing metal / PVC box 1 to 3 Module	No			180.00	121.54	21877.00	180.00	21877.00	

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Sl. No.		Unit	Measurement							Rem.
			Qty.	Cost	Qty.	Rate Rs. P.	Amount	Qty	Cost	
96	Supplying 6A flush/projected type socket and 6 amps flush/projected type SP switch either surface/flush mounting in a existing gang box or in a 4mm thick plastic sheet and fixing over a flush mounted wooden box and wiring using necessary capacity wires as required. 6 Amps 2 Way	No			184.00	141.61	26056.00	184.00	26056.00	
97	Supplying and flush mounting powder coated metal box suitable for mounting modular switch plates. The box should be firmly flush mounted after due groove cutting in Brick/Stone/C.C wall 16 Way	No			193.00	191.78	37014.00	193.00	37014.00	
98	Supplying 4mm thick plastic sheet with necessary nitches for fixing switches regulators etc., and fixing on existing wooden or metal box using N.F. screws. (P.17/I.3.10 PWD,ELE -SR 2014-15)	Sqcm			150000.00	0.25	37500.00	150000.00	37500.00	
99	Supplying heavy gauge PVC conduit pipe 20mm dia confirming to IS 2509 with suitable size bends, junction boxes, adhesive paste etc., and fixing using inverted wood plugs in case of RCC ceiling and RCC wall stone structure or rawl plugs in case of brick walls and cement plastering damaged portion using heavy gauge saddles at an interval of 700mm using NF screws.(P.2/I.1.1.1 PWD,ELE -SR 2014-15)	Rmtr			500.00	60.21	30105.00	500.00	30105.00	
100	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C. cutouts and other equipments on the meter board using 40mm dia 2.90 mm thick GI pipe 2.5 mtr long buried in a pit..... The pit should be filled with equal proportion of salt and charcoal 150 mm alround the pipe to complete depth. The connection from the pipe to the conduit etc, is to be established through GI wire of size as per IS1 specification 7.33 of IS 732 using 12 mm dia bolts, nuts, washers and checknuts etc, the pipe shall have 16 through holes of 122 mm dia.(P.55/I.7.1PWD,ELE -SR 2014-15)	Each			2.00	3040.61	6081.00	2.00	6081.00	
101	Supplying & fixing of Porcelain fuse channel with cut out on existing wooden/panel using necessary nuts, bolts and washers etc., complete. 32 AMPS (P.45/I.6.7.2 PWD,ELE -SR 2014-15)	Each			3.00	200.70	602.00	3.00	602.00	
102	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF,energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required. 5-32 Amps	Each			15.00	466.07	6991.00	15.00	6991.00	
103	Supply and fixing of bakelite D.P/Socket / switch with / without neon indicator over existing wood board or flush mounting in plastic plates/nitches. 16 Amps Combined switch and socket with indication	Each			38.00	216.31	8220.00	38.00	8220.00	
104	Supplying and fixing PBBC brass/Bakelite straight or slant batten holder and wiring, within 60W/230 Volts lamps.	Nos			39.00	98.12	3827.00	39.00	3827.00	

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Sl. No.		Unit	Measurement Qty.	Measurement Cost	Qty.	Rate Rs. P.	Amount	Qty	Cost	Remarks
105	Wiring for lighting / power circute using one of PVC insulated 1100v/grade multies and copper conductor single core cable in open or consealed system of wiring A Group materials 4.00 Sqmm materials	Rmtr			1500.00	46.94	70410.00	1500.00	70410.00	
106	Wiring for lighting / power circute using one of PVC insulated 1100v/grade multies and copper conductor single core cable in open or consealed system of wiring A Group materials 2.50 Sqmm materials	Rmtr			1500.00	32.56	48840.00	1500.00	48840.00	
107	Fixing one exhaust fan after making a suitable nitch in the wall and finishing with cement mortar and colouring to match the existing wall or brackets, with bolts and nuts and a 5 amps, ceiling rose with sufficient length of 23 / 0.0076 inch PVC insulated twin core wire of approved make with wire mesh and wooden frame.	Nos			0.00	758.20	0.00	0.00	0.00	
108	Supplying exhaust fan of 1440 RPM of 300mm (12") size with bracket blades complete for light duty suitable to operate on 230V 50Hz, AC Supply.	Nos			0.00	1895.50	0.00	0.00	0.00	
109	Supply of 2'x2' LED recessed luminaire with ...Watts system wattage. Housing shall be with pressure die cast aluminum alloy with corrosion proof resistant polyester power coated. Driver operates with voltage range from 100V to 270V 50/60 Hz with short circuit, overload & mis-wiring protection. Lumen Maintenance of 70% at 50000 Hrs. Injection moulded poly carbonate diffuser for better mechanical stability, light transmission & avoid pot hole effect. Junction temperature shall be < 70 degree Celsius. Driver is on constant current driver @ 0.06A with PF > 0.92 with line voltage @ 220-240V @ 50/60Hz, driver efficiency > 85% & THD<15%. LED Efficiency > 130 lm/W at 1W & Fixture Efficiency >75lm/w with CRI > 75 with injection moulded Polycarbonate lens with < 80mm depth. 5 years Warranty against any manufacturing defect working under standard electrical condition. GF - LED modular down light 1'x1'-36 watts	Each			30.00	7811.69	234351.00	30.00	234351.00	
110	FF-LED modular down light 2'x2'-55 watts				20.00	10339.40	206788.00	20.00	206788.00	
111	Supply and fixing polished wood board made of not less than 15mm thick plank on both sides of not more than 2 pieces and fixing the same to the wall using tapered inverted wooden plugs screws. 12"x12"x2"	Each			20.00	170.60	3412.00	20.00	3412.00	
112	15"x12"x2"	Each			10.00	197.36	1974.00	10.00	1974.00	
113	20"x20"x2.5"	Each			10.00	336.73	3367.00	10.00	3367.00	
114	Supplying and fixing PVC/metal conduit Deep junction box 32mm deep junction box	Each			100.00	72.48	7248.00	100.00	7248.00	
115	Extra for Groove cutting in brick wall/CC floor to the suitable depth for concealing of Conduit/GI pipe and plastering, finishing upto wall surface complete. upto 50mm conduit in brick wall	Mtr			150.00	23.42	3513.00	150.00	3513.00	

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Sl. No.		Unit	Measurement Qty.	Measurement Cost	Qty.	Rate Rs. P.	Amount	Qty	Cost	Rem
116	Supplying and fixing regular MCCB distribution Panel confirming to IS 8828, on wall / wood board / flush mounting using required clamps, bolts, nuts etc., with provision for fixing of suitable type capacity MCCB's as an incomer for 3 phase Double door with necessary bus bar completely wired to use on 440Volts 3phase 4 wire powder coated painting etc., complete with a provision for fixing of single/three phase suitable capacity MCCB/MCB's as outgoings confirming to IS8828. 12Way	Each			6.00	13217.21	79303.00	6.00	79303.00	
117	Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc., complete.In soil (hard)	Mtr			20.00	118.19	2364.00	20.00	2364.00	
118	Supplying and fixing of class A (medium duty) GI pipe of wall thickness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV.40mm	Mtr			20.00	384.68	7694.00	20.00	7694.00	
119	Supplying of 1.1 KV LT UG cable having aluminum conductor PVC insulated, extruded inner sheathed, galvanized, steel strip (except 2CX10Sq.mm wire armoured) confirming to IS-3975:1990 (No. of Strip indicated in GTP) & extruded PVC outer sheathed armoured cable with specified IS-1554 Part-1:1988 & confirming to GTP of GROUP-A. 4 core 16	Mtr			20.00	156.55	3131.00	20.00	3131.00	
120	Supplying Capacitor type ceiling fan complete with down rod blades shackle canopies etc for operation on 230volts 50cycles single phase AC supply confirming to ISS-374-1979 and with double ball bearing system 56" Sweep (1400mm) Regular Model-GF	Each			14.00	2696.07	37745.00	14.00	37745.00	
121	Fixing a ceiling fan of all capacities and all types to the existing S hook with fan regulator to the existing board together with supplying and fixing a 5 ampers ceiling rose, necessary length of 23/0.0076 inch PVC insulated twin twisted copper wire and wiring completely.	Nos			14.00	264.26	3700.00	14.00	3700.00	
122	Supplying and Installing 1.00HP / 75 KW 10Stage Submersible Single Phase Motor	Set			1.00	14049.00	14049.00	1.00	14049.00	
123	Meter and Panel Board: Supply and delivery of meter and panel board unit one number of MS box of size 300 x 120mm size fabricated out of 2mm thick sheet metal with sealable door arrangement for mounting the CTS(if any) cutouts 3 phase dia 4 wire energy meter and cable box complete. A transparent glass piece should be provided where the energy meter reading could be read b. Panel Board (1.00HP) One number of cubicle type of control panel board to operate on 50c/400/400v	Each			1.00	1527.45	1527.00	1.00	1527.00	
	Sub Total				**12513878.00**		**6091925.00**		**18605803.00**	
	GST @ 18% for Present Bill						**1096547.00**		**1096547.00**	
	Grand Total				**12513878.00**		**7188472.00**		**19702350.00**	

CERTIFICATE

from departmentally.

AE

Asst. Executive Engineer
Project Division
Yelahanka Zone

18/5/23

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